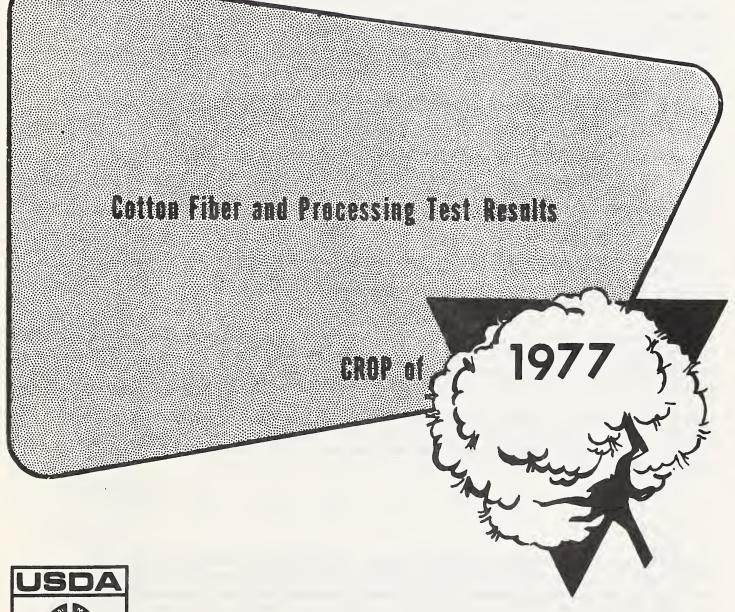
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U.S. DEPT. OF AGRICULTURE NAT'L AGRIC, LIBRARY REPORT NO. 6

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Agricultural Marketing Service
U.S. DEPARTMENT OF AGRICULTURE
Memphis, Tenn. 38122 December 2, 1977

COTTON FIBER AND PROCESSING TEST RESULTS, CROP OF 1977

Discussion of Test Results

Southwestern short staple cottons tested through November 25 are slightly longer, more uniform and finer than a year ago, according to the Cotton Division, Agricultural Marketing Service, USDA. Fiber strength is considerably stronger than last season. Picker and card waste is lower. Yarns spun from these samples are stronger. The average spinning potential yarn number is much higher.

Average results of all medium staple cottons tested show fibers to be longer, more uniform and coarser than a year ago. Shirley Analyzer nonlint content is higher but picker and card waste is a little lower. Yarns spun from these samples are weaker and have lower appearance grades. Yarn imperfections are higher.

Medium staple samples tested from the Southeast show approximately the same fiber characteristics as a year ago. Yarns spun from these samples are weaker and have lower appearance grades. The spinning potential yarn number is lower.

South Central medium staple samples tested are longer, more uniform and coarser than last season. Zero gage fiber is somewhat lower. Shirley Analyzer nonlint content is higher. Yarns spun from these samples show weaker yarn skein strength and lower appearance grades. Yarn imperfections are higher. The spinning potential is slightly higher.

Southwestern medium staple samples tested showed about the same fiber characteristics as a year ago, except fiber strength at zero gage is higher. Picker and card waste is lower than last season. Yarns spun from these samples show lower appearance grades. Yarn imperfections are fewer. Spinning potential is lower.

Medium staple samples tested from the West are more uniform, coarser and stronger than a year ago. Yarns spun from these samples are slightly stronger, but have lower appearance grades. Yarn imperfections are higher. Spinning potential yarn number is higher. Several spinning lots of cotton from this area stuck to the processing rolls.

Long staple samples from the Southeast are shorter, coarser and weaker at 1/8 gage strength tests. Both Shirley Analyzer nonlint content and picker and card waste are higher. Carded yarns spun from these samples are weaker and have lower appearance grades. Spinning potential yarn number is lower.

These reports are published bi-weekly during the harvesting season and will be summarized in a comprehensive report at the end of the crop year. A detailed description of the tests shown in this report may be found in the summary report for the previous season. These reports are available on request from the Standardization Section, Cotton Division, Agricultural Marketing Service, U. S. Department of Agriculture, 4841 Summer Avenue, Memphis, TN 38122.

^{1/} Summary of Cotton Fiber and Processing Test Results, Crop of 1976, USDA, AMS, Cotton Division, June 1977.

of fiber and processing tests from selected gin points in the United States	1/
rom selected	5, 1977
er and processing tests f.	through November 25, 1977
Averages of fib	
Table 1Cotton:	

- 3 -

Based on a limited number of samples of modal quality
Minimum differences considered to be significant for comparisons in this table.

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Averages of fiber and processing tests from selected gin points in the United States through November 25, 1977 1/ (Continued)

Table 1.--Cotton:

					- 4 -				
	SPY	No	70	57 63	81			m	
	ctns	No.	∞ *	∞ *	ı *			α	
		lo.	20	16	. 25			Q۱	
Results	Quality Appearance	Combed Indx nbed Ya	120	105	ı *			5	
	Yarn Quality Appearan	mbed carded combed ce Lbs. Indx Indx Carded Yarn	107	100	93			5	
Processing Test	Ya keth	Combed Lbs.	140	138	! *			4(22s) 2(50s)	
Pro	Strength	Lbs. 1	119	111	129			4(22s)	
	Comber Waste	Pct.	15.8	5 0.	*			0.5	
	P&C Waste		6.2	9.9	5.51			0.5	
	SA Non-	lint Pet.	0 0 0 0	3.8	3.5			0.5	
S	1/8"	gagel G/tx	23	5t 58	27		•	н	,
Results	Strength Zero 1/8	Mpsi	87 87	8 21	18			۵	,
Test 1	Mike	Pct. Rdg.	4.4	3.8	1 2.			0.2	(
Fiber '	nii	Pct.	45	77 77	<u>-</u>			Q	
Œ,	Length Span U	In.	1.16	1.12	1.18			0.02	•
	Lots	No	9	W W	ıπ				
	Area, and	4 A	Long Staple: Southeast 1976 1977	South Central 1976 1977	West 1976 1977			Significant Difference <u>2</u> /	

Minimum differences considered to be significant for comparisons in this table. Combed data not available. Based on a limited number of samples of modal quality

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1977

Test Results - Carded Yarns	Fiber Elon- S.A. Raw Stock P.& C Strength Elongation Appearance Imprfect'ns Spin.	G/Tex For No No For LDS LOT For NO NO NO NO NO	LANKART 611 22 7.1 4.4 1 4 6.1 300 100 8.2 6.3 110 110 36 19 46	LANKART LX571 23 6.0 3.2 1 4 6.0 290 103 7.4 6.0 ₁₂₀ 110 28 16 50	TAMCOT SP21 23 5.7 2.9 1 4 4.6 324 108 7.7 6.3 110 100 30 17 55	GSA71 23 7.0 4.7 1 3 6.4 ½/308 106 7.8 6.7 120 110 21 10 59	8LIGHTMASTER A5 75 PERCENT 75 PERCENT 20 6.2 2.9 1 4 5.3 \pm / 293 96 7.6 6.3 130 110 19 11 45	MORCOT M78 22 6.0 4.0 1 4 5.4 308 106 7.8 6.4 120 110 19 11 57	PAYMASTER 18 8.6 1 /268 84 7.3 5.9 120 130 18 13 36	PAYMASTER 266 27 6.1 3.8 1 4 5.5 334 116 7.5 6.4 120 120 25 15 62	PAYMASTER 303 22 6.2 2.9 1 4 4.8 306 105 7.8 6.6 120 110 20 10 61	LANKART 57 22 6.4 3.8 1 4 5.3 298 101 7.7 6.2 130 110 18 8 53	GSA71 22 5.8 5.4 2 3 8.4 310 106 7.5 6.2 120 100 29 13 53	WESTERN SP44 8.4 1 4 4.6 $^{1}\!\!/$ 296 96 7.5 6.0 120 110 21 11 45	
Process	Strength 8 or 22s or 74 tx 27 tx Lbs Lbs		100 PERCE 300 100	7 PERCE 103	30 PERCE 108	85 PERCE 308 106	1/ 293 96	10 PERCE	80 268	5 PERCE 116	10 PERCE	O PERCE 101	75 PERCE 106	85 PERCE 296 96	0 0 0
	ck P &			•	4	6.4	5.3	ī	5.6	5.	4.	Ŋ	œ	4.6	
	Co Raw Gra		-		1	1		-	1		1	1	2	-	
	L	Fet	4.4	ů	2.9	4.7	A5 2.9	4.0	2.	3,	2.	3 . 8	5.4	2.	
est	ther ength 1/8" Gage G/tex	c/tex	91-					Σ		IASTER 6.					
Fiber T	NON	Mps1	8	90	94	8	89	85	82	95	85	86	06	92	
	Mike Rdg	Rdg	3.5	4.6	3.6	4.1	4.2	3.9	5.2	3.9	3.7	4.3	3.9	4.5	
	Digital Fibrograph 2.5% Unif span In Pet	Ret	7.4	47	4	4	46	?	14	64	44	14 41	7.	94	
			0.95	1.02	1.01	1.03	0.95	1.04	0.92	0.97	1.04	0.98	16.0	0.98	
;	Stple 32s	AREA	31	32	32	34	31	33	31	31	33	31	32	31	
Area	Tode Code		XAS	T 32	32	R.	32	32	31	31	31	31	51	31	
Production Area,	Sample Number Grade No Grade Name & Code	SOUTHWEST	NORTHWEST TEXAS ANSON 2 MID LT·SP 3	BURKBURNETT 2 MID LT SP	GOREE 2 MID LT SP	HALE CENTER 1 SLM	LAMESA 3 MID LT SP	LOCKNEY 2 MID LT SP	LOCKNEY 1 MID	LOOP 1 MID	LORENZO 2 MID	PADUCAH 1 MID	PLAINS 1 LM	SNYDER 1 MID	

Table 2 --Cotton, American upland short staple: Quality characteristics by production areas, crop of 1977--(Continued)

	Spin. Poten-	tial	NO NO		64
	S Z	1			
	ect'n	22so 27 to	욄	15	11
arns	Imprfect'ns Spin.	8s or 74 tx	ଥା	20	110 20 11
arded Y	ance	22sor 27 tx	SI SI	100	110
Processing Test Results - Carded Yarns	Appearance Index	lint Gra Yel Waste 8s or 22sor 8s or 22s or 8s or 22sor 8s or 22sor 74 tx 27 tx 74 tx 27 tx 74 tx 27 tx 74 tx 27 tx	N _O	6.0 120 100 20 15	6.3 120
st Resu	ion	2s or 7 tx	Pet	0 • 9	6.3
ing Tea	Elongation	8s or 274 tx	Pct Pct	NT 7.4	7.7
Process		22s or 27 tx	Lbs	90 PERCENT	PERCE 98
	Strength	3s or 74 tx	Lbs	90	75 PERCENT 292 98 7.7
	P & C	Vaste	Pct	90 PERCENT 3.6 1 4 5.6 299 99 7.4	4.1
	Color aw Stock	Yel	8	4	2.5 1 4 4.1
	Co. Raw	Gra	SI SI	-	-
	S.A.	lint	Pct No	3.6	2.5
ω N	Elon- S.A. Color gat'n Non- Raw Stock P & C	1/8"	Pct	5.8	611
Fiber Test Results	Fiber rength	1/8" Gage	G/tex	LANKART 57 23 5.5	LANKART 611 21 6.4
Fiber	Fiber Strength	Zero Gage	Mpsi	92	48
	Mike	2	Rdg	9.4	4.8
	tal raph	Unif	Pet	8	4.7
	Digital Fibrograph	Stple span	E C	1.02	0.98
		tple	32s inued	32	31
ea,	ř		(Cont	32	32
Production Area,	Sample Number	No Grade Name & Code	SOUTHWEST AREA(Continued)	OKLAHOMA GRANDFIELD 2 MID LT.SP 32 32 1.02	MINCO 1 MID LT SP 32 31 0.98

	Imprfect'ns Spin.	or 50s or tial	NO NO		21 25	14 56	15 36	10 51	14 63		16 53	. 20 59	12 60	13 63	18 52	17 71	
Carded Yarns		50s or 22s	윘		60 22	70 17	80 16	80 12	90 15		70 19	70 27	70 12	80 17	70 24	70 21	
1	Appearance Index	22s or 50.	i .		06	06	100	100	100		100	06	06	100	06	06	
Test Results	Elongation	50s or	Pct		3.7	4.5	3 • 3	3.9	4.2		3 .8	4.1	4 • 3	4.5	4.	4.5	
Processing T	Strength Elon	22s or 50s or 22s or 27 tx	Sq		100 PERCENT 70 19 1/4.0	90 PERCENT 96 30 5.9	100 PERCENT 82 26 4.8	80 PERCENT 97 28 5.7	100 PERCENT 110 36 5.5		99 PERCENT 97 31 5.7	100 PERCENT 97 31 5.6	100 PERCENT 109 35 6.2	100 PERCENT 102 44 6.3	75 PERCENT 92 30 5.9	100 PERCENT 103 44 6.3	100 PERCENT
	ъ В С	Wast	Pct		8.4	6.4	7.0	5.6	6.1		9.9	4.9	5.8	5.3	6.2	5.6	
	Color Raw Stock	Gra Yel	No No		4	2 3	5	3 4	3 4		3 3	3	4 3	3	3 2	1 2	
st Results	S.A.	gat'n Non- 1/8" Lint	k Pct Pct		STONEVILLE 603 21 5.4 4.3	DELTAPINE 16 23 6.6 4.4	E KING III 5.6 4.0	DELTAPINE 16 24 6.5 2.5	R 417 5.3 4.0		STONEVILLE 213 22 6.1 3.9	STONEVILLE 213 24 6.4 3.6	DELTAPINE 16 23 6.3 2.8	DELTAPINE 16 25 6.7 4.4	STONEVILLE 213 21 6.4 2.9	DEL TAP INE 16 23 7.2 3.0	STONEVILLE 213
Fiber Test Re	Fiber	Zero 1/8" Gage Gage	ł		STON 92 21	DEL 1	DIXIE 86 20	DEL 1 84 24	COKER 91 24		STON 86 22	STON 83 24	DEL1 89 23	DEL 1 84 25	STON 81 21	0EL 1	STON
Fil		Mike	Rdg		5.1	4-4	5.2	5.2	4.5		5.0	4.8	4.2	4.6	1.4	4.2	
	Digital Fibrograph	Unif.	Pet		4	4	4.5	45	46		47	4	44	4	46	44	
	Digital	L	티		1.04	1.08	8.8	1.06	1.11		1.08	1.11	1.09	1.12	1.06	1.16	
, r		Stple	32s	AREA	33	34	33	33	35	AREA	35	35	2 35	1 34	1 34	CE 1 36	щ
Production Area, Classification	& Sample Number	No Grade Name & Code		SOUTHEAST	ALABAMA MERIDÍANVILLE 3 LM SP 53	WILSONVILLE 3 SLM LT SP 42	GEORGIA BOSTWICK 1 SLM SP 43	SHELLMAN 1 MID LT SP 32	SOUTHCAROLINA CHESTER 2 SLM LT SP 42	SOUTH CENTRAL	ARKANSAS BISCOE 3 SLM LT SP 42	LEACHVILLE 3 LM 51	WILSON 3 SLM LT SP 43	WYNNE 3 LM 51	LOUISIANA ALEXANDRIA 2 LM	LAKE PROVIDENCE 3 SLM 41	LAKE PROVIDENCE

- 8 -

	Spin.	Poten- tial	No No		62	54	99	41	53	53	62	89	57	8 4	48		39
		14			18	17	14	13	14	14	23	18	17	24	22		12
rns	Imprfect'ns	22s or 5			28	25	16	18	20	23	33	21	19	28	32		12
Carded Yarns	nce	50s or	1		09	70	70	70	10	70	09	09	0.2	7.0	09		70
1	Appearance	22s or 5	1		06	06	06	06	06	100	06	06	06	06	06		06
Test Results	tion	li,	1		4.8	0.4	4.7	3.8	4.1	3.7	4.0	4.5	4.3	3.8	3.8		3.8
sing Te	Elongation	22s or	Pet		ENT 6.5	5.8	.ENT 6.4	ENT 5.5	ENT 5.7	ENT 5.2	ENT 5.8	ENT 6.1	ENT 5.7	ENT 5.5	ENT 5.6		.ENT 5.2
Processing	ugth	50s or	SQI		35 6.5	PERCENT 30 5.	PERCENT 36 6.	PERCENT	PERCENT 31 5.	PERCENT	PERCENT	PERCENT 37 6.1	PERCENT	PERCENT	PERCENT 27 5.6		PERCENT 29 5.
	Strength	22s or 27 tx	Ips		100	100 96	100	75 86	96	100	100	100	98	100	06		70
	ر م	Wast	Pet		5.3	6.9	7.1	1.9	5.8	6.9	8.1	6.2	5.9	7.5	6.5		5.9
	Color	Yel	욁		ю	6	2	9	3	2	2	7	ю	۳	6		4
	5 :	Gra	외		-	3	2	2	-	3	2	2	~	3	æ		0
	S. A.	Non- Lint	Pet		3.3	3 4.8	4.3	3.0	3.4	1N 4.9	5.7	4.3	3 3.5	3	3 3•9		3.2
S ₂	Elon-	gat'n 1/8"	Pct		NE 61 7.2	LLE 21 6.5	NE 16 6.8	NE 16 6.8	LLE 21	LLE 731N 5.0 4	NE 26 5.7	NE 55 6.9	LLE 213 5.8	LLE 213	LLE 213 5.9		4789A 5.6
sst Results	Fiber	1/8" Gage	G/tex		DELTAPINE 23 7.	STONEVILLE 22 6.5	DELTAPINE 16 24 6.8	DEL TAP INE 21 6.	STONEVILLE 21 6.	STONEVILLE 23 5.0	DELTAPINE 23 5.	DEL TAP INE 24 6.	STONEVILLE 23 5.8	STONEVILLE 22 6.5	STONEVILLE 22 5.0		LOCKETT 19
Fiber Test	Fiber	Zero Gage	Mpsi		82	83	88	81	82	91	92	87	88	84	98		83
1 14		Mike	Rdg		4.4	4.6	4.2	4.7	4.5	6.4	4.4	3.8	9.4	6.4	4.		4.3
	al manh	Unif.] Let		47	46	94	45	94	41	94	43	4.5	46	44		46
	Digital		In [In		1.09	1.10	1.13	1.10	1.09	1.14	1.10	1.14	1.12	1.08	1.08		0.95
		Stple	32s Conti	~	35	35	35	34	34	36	35	35	35	35	34	AREA	31
Trea,	er		EA(inued	41	ND 42	51	14	41	51	51	51	41	51	45	⋖	31
Production Area, Classification	& Sample Number	No Grade Name & Code	SCUIH CENTRAL AREA(Continued)	LOUISIANA (Continued)	MONROE 2 SLM	SICILY ISLAND 3 SLM LT SP 4	MISSISSIPPI BELZONI 3 LM	BRANDON 2 SLM	EDWARDS 2 SLM	GLENDORA 3 LM	GREENVILLE 3 LM	SCOTT 3 LM	MISSOURI HAYTI 3 SLM	PARMA 3 LM	TENNESSEE RIDGELY 3 SLM LT SP	SOUTHWEST	NORTHWEST TEXAS ACKERLY 3 MID 31

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1977--(Continued)

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1977--(Continued)

	Spin.	Poten- tial	일		64	54	72	1.1	9	76 80	83	87	8 9	75	88	16
	Imprfect'ns	50s or	纟		12	20	18	19	19	111	17	11	14	12	61	18
Yarns	Imprf	22s or 27 tx	위		1.7	22	21	32	60 26 through card	14	20	26	8 1	11	59	22
Carded Ya	nce	Os or			9	7.0	09	09		09	70	70	09	70	09	09
	Appearance Index	22s or 5	1		06	06	80	10	80 not pass	06	80	06	06	06	06	06
Test Results	ation	50s or 12 tx	Pet		3.5	4.3	4.7	6.4	4.5 n would	4.9	6.4	4.7	6.4	4.7	5.0	7.7
Processing Te	Strength Elongation	50s or 22s or 12 tx 27 tx	욊		PERCENT 29 4.7	7 PERCENT 33 5.4	PERCENT	9 PERCENT 46 6.3	_ ~	46 6.1 44 6.2	PERCENT	PERCENT 51 6.3	PERCENT 37 5.9	PERCENT 45 6.2) PERCENT 51 6.4) PERCENT 45 5.7
	Stre	22s or 27 tx	SqT		100	97 102	99	98 128	12 inn	134 130	100	100	94	100	93	128
	P & C	Waste	Pet		5.5	5.8	6.17	3.7 1	5.8 1/ No sp.	4.6 ½	4.41	5.6	5.3	4.2	4.5	√ 0.9
1	Color w Stock	Yel	외		6	. 60	e	~	m m	m m	9	9	æ	3	2	6
	C _C Raw	Gra	<u></u>		0	-	-	0	~ ~	0 1	-	7	0	0	0	-
	S.A.	Non- Lint	lst Ist		1.9	3.4	3.0	2.4	2.5	1.9	1.8	3.9	2.7	2.2	1.9	2.9
ılts	Elon-	gat'n 1/8"	Pct		11LE 256	INE 61 6.4	5.9	SJ-2 5.7	5.5	5.6	5.6	5.2	5.4	\$J-2 5.5	SJ-2 5.6	5.5
est Results	ber ngth	1/3" Gage	G/tex		STONEVILLE 20 4.	DEL TAP INE 24 6.	ACALA 26	ACALA 27		27 27 28	ACALA 27	ACALA 30	ACALA 28	ACALA 26	ACALA 28	ACALA 26
Fiber T	Fi	Zero Gage	Mpsi		98	87	91	9.6	98	96	86	101	103	96	66	98
		Mike	Rdg		4.7	4.6	4	4.1	4.2	4.2	4.1	3.9	4.3	3.9	4.1	4.5
	al raph	Unif.	Pct		43	45	4.7	4.1	94 ††	48	4.1	4.7	45	47	47	9 4
	Digital Fibrograph	2.5% span	ul		1.10	1.10	1.14	1.13	1.12 1.10	1.12	1.15	1.11	1.08	1.12	1.12	1.10
		Stple	328	AREA	34	35	36	35	35	36 36	36	36	35	35	36	35
rea,	er			AR	31	41	41	31	31 31	21	0 4	41	31	31	31	40
Production Area, Classification	& Sample Number	No Grade Name & Code		WEST	ARIZONA MOHAVE VALLEY 1 MID 3	ROLL 2 SLM	CALIFORNIA ARVIN 3 SLM	ARVIN 2 MID	BAKERSFIELD 2 MID 3 MID	DANERSFIELD 1 SM 2 SLM PLUS	BUTTONWILLOW I SLM PLUS	CHOWCHILLA 1 SLM	COALINGA 1 MID	COALINGA 1 MID	FIREBAUGH 1 MID	FIVE POINTS I SLM PLUS

Table 3 --Cotton, American upland medium staple: Quality characteristics by production areas, crop of 1977--(Continued)

Styles Styles Strength Strength Strength Strength Strength Strength Strength Styles Style	Production Area, Classification				124	Fiber Te	Test Results	ts		1			4i	ess	ing Tes	sal	1 2	Carded Yarns	rns		
			Digit: Fibrog	al raph		Fib Stren	er gth	Elon-		Color Raw Stoc		2 % C	Streng		Longat	_	ചെവി	nce	Imprfe	_	Spin.
S	0,1	Stple		Unif.	Mike	Zero Gage	1/8" Gage	1/8"	-				or ×	N O	or x	or x	٤.	× or	22s or 5 27 tx]		tial
6 1.114 47 4.2 97 ACALA SJ-2 5 1.110 46 4.2 104 28 5.2 3.0 0 3 5.3 130 PERCENT 5 1.110 46 4.2 104 28 5.2 1.8 0 2 4.7 135 PERCENT 6 1.107 45 4.8 89 24 5.9 2.8 1 3 6.3 99 32 5.5 3.9 80 70 22 17 7 1.107 45 4.8 89 24 5.9 2.8 1 3 6.3 99 32 5.5 3.9 80 70 22 17 8 1.107 45 4.8 89 24 5.9 2.8 1 3 6.3 99 32 5.5 3.9 80 70 22 17 8 1.107 45 4.8 89 24 5.9 2.8 1 3 6.3 99 32 5.5 3.9 80 70 22 18 8 1.112 46 3.9 98 27 4 6.3 2.4 0 3 5.1 129 PERCENT 7 4.1 93 28 5.9 3.1 1 3 6.0 134 46 6.3 4.9 90 60 23 18 8 1.112 47 4.1 93 28 5.4 3.0 1 3 5.4 135 48 6.3 4.9 90 60 23 18 8 1.113 47 4.0 99 28 5.3 1.5 0 3 3.7 1 136 47 6.3 4.9 80 60 23 18 8 1.112 46 3.9 99 27 5.7 1.7 0 3 4.3 14 5 18 9 PERCENT 9 9 PERCENT 9 9 170 25 20 9 18 9 170 25 20 9 9 18 18 9 18 9 18 9 18 9 18 9 18 9 18	nued	328	티	Pct	Rdg	Mpsi	G/tex	Pct	Pct	8	일	Pet				t]	<u> </u>	<u>8</u>	일	<u>&</u>	<u> </u>
40 36 1.114 4.7 4.2 97 ACALA SJ-2 30 35 1.116 4.6 4.2 104 28 5.2 3.0 0 3 5.3 130 PFRCENT 41 36 1.115 4.7 4.2 104 28 5.3 1.8 0 2 4.7 135 PFRCENT 41 36 1.113 4.7 4.2 100 28 5.3 1.4 0 3 5.4 14 5 18 6.0 1 135 PFRCENT 41 36 1.113 4.7 4.1 104 28 5.3 1.4 0 3 5.4 14 18 5.0 14 18 PFRCENT 41 36 1.113 4.7 4.1 104 28 5.3 1.5 0 3 5.4 14 18 5.0 14 18 PFRCENT 41 36 1.113 4.7 4.1 104 28 5.3 115 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	tinue	d)																			
32 34 1.07 45 4.8 89 DELTAPINE 61 2.8 1.8 0.2 4.7 135 47 5.9 4.6 90 60 22 17 32 34 1.07 45 4.8 89 DELTAPINE 61 2.8 1 3 6.5 99 PERCENT 41 36 1.112 46 3.9 98 27 6.5 2.4 0 3 5.1 129 46 6.2 4.7 90 70 12 9 41 36 1.113 46 4.1 99 22 8 5.4 3.0 1 3 6.0 1 13 6.0 1 13 6.0 1 12 9 PERCENT 41 36 1.113 46 3.8 99 2 8 ACALA SJ-4 41 36 1.113 46 3.8 99 2 8 ACALA SJ-4 41 36 1.113 47 4.0 99 2 ACALA SJ-4 41 36 1.113 47 4.0 99 2 ACALA SJ-4 41 36 1.113 47 4.0 99 2 ACALA SJ-4 41 36 1.113 47 4.0 99 2 ACALA SJ-4 41 36 1.114 41 41 41 41 41 41 41 41 41 41 41 41	40	36	1.14	47	4.2	16		5,9-2	3.0	0	ю	۳.	96	S C E	NT 6 . 4	4.7	06	70	23	11	7.8
32 34 1.07 45 4.8 89 24 5.9 2.8 1 3 6.5 99 32 5.5 3.9 90 70 25 20 28 2 34 1.09 4.00 44 4.6 89 24 5.9 2.8 1 3 6.3 99 32 5.5 3.9 80 70 25 18 8 9	30	35	1.10	94	4.2	104		5,1-4	1.8	0	2	4.7	35	RCE	5.9	9.4	06	9	22	11	73
40 35 1.12 46 3.9 98 27 6.2 2.4 0 3 5.1 129 46 6.2 4.7 90 70 12 9 41 36 1.15 47 4.1 93 28 5.9 3.1 1 3 6.01 131 46 6.3 4.7 80 60 33 26 41 36 1.15 47 4.1 93 28 5.9 3.1 1 3 6.01 131 46 6.3 4.7 80 60 30 21 41 36 1.113 47 4.0 99 28 5.4 2.2 1 3 5.41 135 48 6.3 4.9 90 60 23 18 41 36 1.113 47 4.0 99 28 5.4 3.0 1 3 5.41 136 47 6.3 4.9 90 60 29 22 41 36 1.113 47 4.0 99 28 5.4 3.0 1 3 5.41 136 49 6.1 5.0 80 60 29 22 42 36 1.13 47 4.1 104 28 5.3 1.4 0 3 3.71 136 49 6.1 5.0 80 60 29 22 43 36 1.112 47 4.1 99 28 5.3 1.5 0 3 4.3 14 5 0 3 4.3 14 5 0 3 2.4 14 5 0 0 3 4.3 14 5 0 3 4.3 14 5 0 0 3 4.3 14 5 0 0 3 4.3 14 5 0 0 3 4.3 14 5 0 0 3 4.3 14 5 0 0 3 4.3 14 5 0 0 3 4.3 14 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		34	1.07	44	4 • • • • • • • • • • • • • • • • • • •	89	DELTAP 1 24 24	INE 61 5.9 6.3	2.8	1 2		6.3	96	SC.	NT 5.5	3.9	90	07	25 21	20 18	54 53
41 36 1.15 47 4.1 93 28 5.9 3.1 1 3 6.01 131 46 6.4 5.0 80 60 33 26 41 36 1.13 46 4.1 92 26 5.5 3.6 1 3 6.01 131 46 6.3 4.7 80 60 30 21 41 36 1.12 47 4.2 100 28 5.4 2.2 1 3 5.41 135 48 6.3 4.9 90 60 23 18 41 36 1.13 47 4.0 99 28 5.4 3.0 1 3 5.11 136 48 6.3 4.9 90 60 29 22 41 36 1.13 47 4.1 104 28 5.4 2.7 1 3 5.11 136 48 6.3 4.9 90 60 29 22 41 36 1.13 47 4.1 104 28 5.3 1.4 0 3 3.71 136 49 6.1 5.0 80 70 27 18 40 36 1.12 47 4.1 99 28 5.3 1.4 0 3 4.3 141 51 6.0 4.8 90 70 25 18 41 36 1.12 47 4.1 99 28 5.3 1.5 0 3 4.3 141 51 6.0 70 PERCENT 42 31 34 1.06 46 5.1 93 23 5.3 2.3 1 3 5.2 92 27 4.7 3.5 90 70 22 18		35	1.12	94	3.9			5.3-2	2.4	0	۳	-	4	PERCE 46	NT 6.2	4.7	9.0	70	12	6	11
41 36 1.12 47 4.2 100 28 5.4 2.2 1 3 5.41 135 48 6.3 4.9 90 60 23 18 41 36 1.13 47 4.0 99 28 5.4 3.0 1 3 5.11 136 48 6.3 4.9 90 70 33 24 41 36 1.13 47 4.1 104 28 5.3 1.4 0 3 3.71 136 49 6.1 5.0 80 70 27 18 42 36 1.13 47 4.1 104 28 5.3 1.4 0 3 3.71 136 49 6.1 5.0 80 70 27 18 43 36 1.12 47 4.1 99 28 5.3 1.5 0 3 4.3 141 51 6.0 4.8 90 70 25 22 44 36 1.12 47 4.1 99 28 5.3 1.3 1.3 5.2 92 27 4.3 141 51 6.0 70 27 18	41	36 36	1.15	47	4.1	93		5.9 5.9 5.5	3.1 3.6				0	2	¥ 0 • 4 • 0 • 4 • 0 • 6	5.0	80	09	33	26 21	76
41 36 1.13 47 4.0 99 28 5.4 3.0 1 3 5.11 136 47 6.3 4.9 90 70 33 24 4.1 36 1.13 48 6.3 4.9 90 70 39 22 4.1 36 1.13 48 6.3 4.9 80 60 29 22 32 4.1 36 1.13 47 4.1 104 28 5.3 1.4 0 3 3.7 1/136 49 6.1 5.0 80 70 27 18 4.1 36 1.12 47 4.1 99 28 5.3 1.5 0 3 4.3 141 51 6.0 4.8 90 70 25 22 33 34 1.06 46 5.1 93 23 5.3 1.3 5.3 1 3 5.2 92 27 4.7 3.5 90 70 22 18	STRATHMORE SLM 41	36	1.12	14	4.2			5.4	2.2	-		5.41/	97	AC E	NT 6.3	6.4	06	09	23	18	82
31 36 1.13 47 4.1 104 28 5.3 1.4 0 3 3.7 1/136 49 6.1 5.0 80 70 27 18 31 36 1.12 46 3.9 100 28 5.3 1.5 0 3 4.6 138 52 6.3 4.9 90 60 23 15 40 36 1.12 47 4.1 99 28 5.7 1.7 0 3 4.3 141 51 6.0 4.8 90 70 25 22 31 34 1.06 46 5.1 93 23 5.3 2.3 1 3 5.2 92 27 4.7 3.5 90 70 22 18	41 41	36 36	1.13	47	3.8			5.4	3.0			_	35	RCE	NT 6.3 6.3	6.4	90	70	33	24	79
40 36 1.12 47 4.1 99 28 5.7 1.7 0 3 4.3 141 51 6.0 4.8 90 70 25 22 13 34 1.06 46 5.1 93 23 5.3 1 3 5.2 92 27 4.7 3.5 90 70 22 18	31	36 36	1.13	47	4.1	104		5.3 5.3 5.3	1.4	00		ال	95	*CE	3 1	5.0	90	70	27	18 15	8 6 8 6
31 34 1.06 46 5.1 93 23 5.3 2.3 1 3 5.2 92 27 4.7 3.5 90 70 22 18 4	ISALIA SLM PLUS 40	36	1.12	47	4.1			5.7	1.7	0	ю	•	98	PERCE 51	7. 0.0		90	70	25	22	81
	WESTMORLAND MID 31	34	1.06	46	5.1		DELTAP 1 23	INE 61 5.3	2.3	-	9	•		PERCE.		3.5	90	70	22	18	45

fån

Table ψ --Cotton, American upland long staple: Quality characteristics by production areas, crop of 1977

		1						
	Spin. Poten- tial	원		20		16	18	19
	50sou 12 tx	N		12		24	5 1	1.7
rns	Imprfect'ns 22s or 50so 27 tx 12 tx	용		15		31	2 3	20
rded Y	nce Us or 2 tx	No No		06		09	7.0	70
ts - Ca	Appearance Index 22s or 50s or 27 tx 12 tx	% 		110		06	06	100
t Resul	ion Os or 2 2 tx 2	Pct		3.4		5 • 3	5.0	6.4
Processing Test Results - Carded Yarns	Elongation 2s or 50s	Pet		4.8		TNE 6.4	5, 3	ENF 6.1
rocess	h Osor 2 2 tx 2	SG]		100 PERCENT 91 28 4.		99 PERCENT	100 PERCENT* 21 43 5.7	70 PERCENI 5 51 6.
	Strength Elongation Appearance Index 22s or 50s or 22s or 50s or 22s or 50s or 27 tx 12 tx 12 tx 12 tx 12 tx 12 tx 12 tx	Lbs		100		99	100	136
	P & C and and Comber 22s or 50s or Waste Strength Blongation Appearance Index Appearance and Comber 22s or 50s or 50	Pct		10.8		5.2	بر. ب	6.8
		No		4		٣	~	m
	Color Raw Stock Gra Yel	No.		4		1	prod	2
	S.A. Non- Lint	Pct		3.4		3.6	1.7	4 •
S	Elon- gat'n 1/8"	Pet		310 5.5		ACALA 1517-75 28 5.9	V-1151 6.6	ACALA 1517-70 28 5.7
Fiber Test Results	er gth 1/8"	G/tex		COKER 310 22 5.		ACALA 1 28	ACALA 1517-V 24 6.6	ACALA 28
iber Tes	Fiber Strength Zero 1/2	Mpsi		92		16	85	93
E	Mike	Rdg		5.1		4.1	4.1	3,3
	al aph Unif.	Pet		4 5		4.7	46	24
	Digital Fibrograph 2.5% Un	In In		1.05		37 1.20	1.14	41 37 1.20
	Stple	328	AREA	42 33	AREA	37	36	37
ea,	-	-	₹	45	A	32	31	41
Production Area,	Sample Number	Name & Code	SOUTHEAST	GEORGIA MADISON I SLM LT SP	WEST	NEW MEXICO HATCH 1 MID LT SP	LAS CRUCES 1 MID	WEST TEXAS CLINT 1 SLM

 \star 100% selected for tests, less than 100% in area

